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INFORMATION DISCLOSURE STATEMENT
(Use several sheets if necessary)

A003 US

09/245,198

Applicant(s)
CHICHEPORTICHE, *et al.*; BROWNING, Jeffrey

Filing Date

5 February 1999

Group Art Unit

1633

NOV 09 1999
PCT/US98/04480

*EXAMINER INITIAL	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)	
JK	CC	Allen et al., 1993, Science 259:990-993, "CD40 Ligand Gene Defects Responsible for X-Linked Hyper-IgM Syndrome"
	CD	Amakawa et al., 1996, Cell 84:551-562, "Impaired Negative Selection of T Cells in Hodgkin's Disease Antigen CD30-Deficient Mice"
	CE	Badley et al., 1996, Journal of Virology 70:199-206, "Upregulation of Fas Ligand Expression by Human Immunodeficiency Virus in Human Macrophages Mediates Apoptosis of Uninfected T Lymphocytes"
	CF	Banks et al., 1995, J. of Immunol. 155:1685-1693, "Lymphotoxin-Alpha-Deficient Mice. Effects on Secondary Lymphoid Organ Development and Humoral Immune Responsiveness"
	CG	Biancone et al., 1995, Kidney International 48:458-468, "Inhibition of the CD40-CD40ligand Pathway Prevents Murine Membranous Glomerulonephritis"
	CH	Bodmer et al., 1997, Immunity 6:79-88, "TRAMP, a Novel Apoptosis-Mediating Receptor with Sequence Homology to Tumor Necrosis Factor Receptor 1 and Fas(Apo-1/CD95)"
	CI	Brojatsch et al., 1996, Cell 87:845-855, "CAR1, a TNFR-Related Protein, Is a Cellular Receptor for Cytopathic Avian Leukosis-Sarcoma Viruses and Mediates Apoptosis"
	CJ	Browning et al., 1989, J. of Immunol. 143:1859-1867, "Studies on the differing Effects of Tumor Necrosis Factor and Lymphotoxin on the Growth of Several Human Tumor Lines"
	CK	Browning et al., 1991, J. of Immunol. 147:1230-1237, "Lymphotoxin and an Associated 33-kDa Glycoprotein are Expressed on the Surface of an Activated Human T Cell Hybridoma"
	CL	Browning et al., 1993, Cell 72:847-856, "Lymphotoxin Beta, A Novel Member of the TNF Family That Forms a Heteromeric Complex with Lymphotoxin on the Cell Surface"
	CL2	Browning et al., 1995, J. of Immunol. 154:33-46, "Characterization of Surface Lymphotoxin Forms"
	CM	Browning et al., 1996, J. of Biological Chemistry 271:8618-8626, "Preparation and Characterization of Soluble Recombinant Heterotrimeric Complexes of Human Lymphotoxins Alpha and Beta"
	CN	Browning, et al., 1996, J. Exp. Med. 183:867-878, "Signaling through the Lymphotoxin Beta Receptor Induces the Death of Some Adenocarcinoma Tumor Lines"

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CHICHEPORTICHE, Jeffrey; BROWNING, Jeffrey

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MK	CO	Bucher, P. and A. Bairoch, 1992, "A Generalized Profile Syntax for Biomolecular Sequence Motifs and its Function in Automatic Sequence Interpretation", Proc. Second International Conference on Intelligent Systems for Molecular Biology, Altman, Brutlag, Karp, Lathrop, Searls (Eds.), pp. 53-61
		Castro et al., 1996, Immunity 6:617-627, "Fas Modulation of Apoptosis during Negative Selection of Thymocytes"
	CP	
	CQ	Chen, Y.A. and A.B. Shyu, 1995, Trends in Biol. Sci. 20:465-470, "AU-Rich Elements: Characterization and Importance in mRNA Degradation"
	CR	Chicheportiche et al., 1995, Biochemical and Biophysical Research Communications 209:1076-1081, "Identification in Mouse Macrophages of a New 4Kb mRNA Present in Hematopoietic Tissues, Which Shares a Short Nucleotide Sequence with Erythropoietin mRNA"
	CS	Chinnaiyan et al., 1996, Science 274:990-992, "Signal Transduction by DR3 a Death Domain-Containing Receptor Related to TNFR-1 and CD95"
	CT	Clark et al., 1992, "TNF in Malaria", in Tumor Necrosis Factors. The Molecules and Their Emerging Role in Medicine, B. Beutler (Ed.), Raven Press, NY, pp. 303-328
	CU	Cleary et al., 1995, J. of Immunol. 155:3329-3337, "Opposing Roles of CD95 (Fas/APO-1) and CD40 in the Death and Rescue of Human Low Density Tonsillar B Cells"
	CV	Crowe et al., 1994, Science 264:707-710, "A Lymphotoxin-beta-Specific Receptor"
	CW	Cwirla et al., 1990, Proc. Natl. Acad. Sci. USA 87:6378-6382, "Peptides on Phage: A Vast Library of Peptides for Identifying Ligands"
	CX	De Togni et al., 1994, Science 264:703-707, "Abnormal Development of Peripheral Lymphoid Organs in Mice deficient in Lymphotoxin"
	CY	DeBenedette et al., 1995, J. Exp. Med. 181:985-992, "Role of 4-1BB Ligand in Costimulation of T Lymphocyte Growth and its Upregulation on M12 B Lymphomas by cAMP"
✓	CZ	Degli-Esposti et al., 1997, J. of Immunol. 158:1756-1762, "Activation of the Lymphotoxin Beta Receptor by Cross-Linking Induces Chemokine Production and Growth Arrest in A375 Melanoma Cells"

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CHICHEPORTICHE, Yves; BROWNING, Jeffrey

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1633

NOV 09 1999
JC48
PALEO & BONE

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Devlin et al., 1990, Science 248(5006), "Random Peptide Libraries: A Source of Specific Protein Binding Molecules"

CAA

Eck et al., 1992, J. of Biological Chemistry 267:2119-2122, "The Structure of Human Lymphotoxin (Tumor Necrosis Factor-Beta) at 1.9-A Resolution"

CAB

Falk et al., 1992, Blood 79:3300-3306, "Expression of the APO-1 Antigen in Burkitt Lymphoma Cell Lines Correlates With a Shift Towards a Lymphoblastoid Phenotype"

CAC

Fox, David, 1995, American J. of Medicine 99:82-88, "Biological Therapies: A Novel Approach to the Treatment of Autoimmune Disease"

CAD

Foy et al., 1996, Annu. Rev. Immunol. 14:591-617, "Immune Regulation by CD40 and Its Ligand GP39"

CAE

Funakoshi et al., 1994, Blood 83:2787-2794, "Inhibition of Human B0Cell Lymphoma Growth by CD40 Stimulation"

CAF

Galle et al., 1995, J. Exp. Med. 182:1223-1230, "Involvement of the CD95 (APO-1/Fas) Receptor and Ligand in Liver Damage"

CAG

Gauchet et al., 1993, Federation of European Biochemical Societies Letters 315:259-266, "Human CD40-Ligand: Molecular Cloning, Cellular Distribution and Regulation of Expression by Factors Controlling IgE Production"

CAH

Goeddel et al., 1986, Cold Spring Harbor Symposia on Quantitative Biology L1:597-609, "Tumor Necrosis Factors: Gene Structure and Biological Activities"

CAI

Goodwin et al., 1993, Cell 73:447-456, "Molecular and Biological Characterization of a Ligand for CD27 Defines a New Family of Cytokines with Homology to Tumor Necrosis Factor"

CAJ

Goodwin et al., 1993, Eur. J. Immunol. 23:2631-2641, "Molecular Cloning of a Ligand for the Inducible T Cell Gene 4-1BB: A Member of an Emerging Family of Cytokines with Homology to Tumor Necrosis Factor"

CAK

Grau et al., 1992, "TNF and Mycobacteria", in Tumor Necrosis Factors. The Molecules and Their Emerging Role in Medicine, B. Beutler (Ed.), Raven Press, NY, pp. 329-340

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EXAMINER

Janet M. Kerr

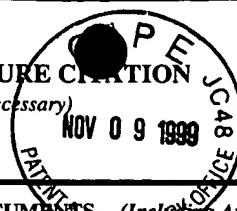
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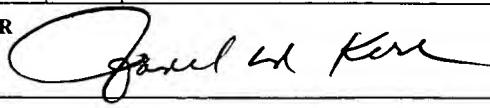
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 	CAM	Gruss et al., 1994, Blood 83:2045-2056, "Pleiotrophic Effects of the CD30 Ligand on CD30-Expressing Cells and Lymphoma Cell Lines"
	CAN	Gruss, Hans-Jurgen and Steven K. Dower, 1995, Blood 85:3378-3404, "Tumor Necrosis Factor Ligand Superfamily: Involvement in the Pathology of Malignant Lymphomas"
	CAO	Hess, Sigrun and Hartmut Engelmann, 1996, J. Exp. Med. 183:159-167, "A Novel Function of CD40: Induction of Cell Death in Transformed Cells"
	CAP	Ike et al., 1982, Nucleic Acids Research 11:477-488, "Solid Phase Synthesis of Mixed Oligodeoxyribonucleotides by the Phosphotriester Solid Phase Method"
	CAQ	Itakura et al., 1977, Science 198:1056-1063, "Expression in Escherichia coli of a Chemically Synthesized Gene for the Hormone Somatostatin"
	CAR	Itakura et al., 1981, "Chemical Synthesis and Application of Oligonucleotides of Mixed Sequence", in Recombinant DNA, Proceedings of the Third Cleveland Symposium on Macromolecules, Walton (Ed.), Elsevier, Amsterdam, pp. 273-289
	CAS	Itakura et al., 1984, Ann. Rev. Biochem. 53:323-56, "Synthesis and Use of Synthetic Oligonucleotides"
	CAT	Jones et al., 1989, Nature 338:225-228, "Structure of Tumor Necrosis Factor"
	CAU	Katsikis et al., 1995, J. Exp. Medicine 181:2029-2036, "Fas Antigen Stimulation Induces Marked Apoptosis of T Lymphocytes in Human Immunodeficiency Virus-infected Individuals"
	CAV	Kitson et al., 1996, Nature 384:372-375, "A Death-Domain-Containing Receptor that Mediates Apoptosis"
	CAW	Kriegler et al., 1988, Cell 53:45-53, "A Novel Form of TNF/Cachectin Is a Cell Surface Cytotoxic Transmembrane Protein: Ramifications for the Complex Physiology of TNF"
	CAX	L. Hillier et al., "The WashU-Merck EST project yy19a08.s1 Homo sapiens cDNA clone 154742 5" EMBL DATABASE ENTRY HS379117, ACCESSION NO. R55379, 28 May 1995, XP002049703

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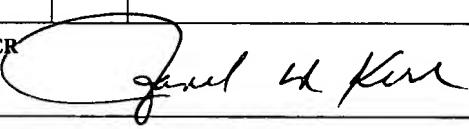
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	CAY	L. Hillier et al., "The Wash U/Merck EST project yy19a08.s1 Homo sapiens cDNA clone 271670 3" EMBL DATABASE ENTRY HS070272, ACCESSION NUMBER N35070, 19 January 1996, XP002049704
		Lee et al., 1996, J. Exp. Med. 183:669-674, "T Cell Receptor-dependent Cell Death of T Cell Hybridomas Mediated by the CD30 Cytoplasmic Domain in Association with Tumor Necrosis Factor Receptor-Associated Factors"
	CBA	Loetscher et al., 1990, Cell 61:351-359, "Molecular Cloning and Expression of the Human 55 kd Tumor Necrosis Factor Receptor"
	CBB	Luettig et al., 1989, Journal of Immunology 143:4034-4038, "Evidence for the Existence of Two Forms of Membrane Tumor Necrosis Factor: An Integral Protein and A Molecule Attached to Its Receptor"
	CBC	Lynch et al., 1999, J. of Biological Chemistry 274:8455-8459, "TWEAK Induces Angiogenesis and Proliferation of Endothelial Cells"
	CBD	Malik, Saleem, 1992, "The Activity of TNF in Experimental Cancer Models", in Tumor Necrosis Factors. The Molecules and Their Emerging Role in Medicine, B. Beutler (Ed.), Raven Press, NY, pp. 407-423
	CBE	Marsters et al., 1998, Current Biology 8:525-528, "Identification of a Ligand for the Death-Domain-Containing Receptor Apo3"
	CBF	Mohan et al., 1995, J. of Immunol. 154:1470-1480, "Interaction Between CD40 and Its Ligand gp39 in the Development of Murine Lupus Nephritis"
	CBG	Montgomery et al., 1996, Cell 87:427-436, "Herpes Simplex Virus-1 Entry into Cells Mediated by a Novel Member of the TNF/NGF Receptor Family"
	CBH	Nagata, Shigekazu and Pierre Golstein, 1995, Science 267:1449-1456, "The Fas Death Factor"
	CBI	Nagata, Shigekazu, 1997, Cell 88:355-365, "Apoptosis by Death Factor"
	CBJ	Nakane, Akio, 1992, "TNF in Listeriosis", in Tumor Necrosis Factors. The Molecules and Their Emerging Role in Medicine, B. Beutler (Ed.), Raven Press, NY, pp. 285-292

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NOV 09 1999
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Docket Number (Optional)

A003 US

Application Number

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Applicant(s)

CHICHEPORTICHE, Yves; BROWNING, Jeffrey

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5 February 1999

Group Art Unit

1633

*EXAMINER INITIAL	OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)
gk CBK	Narang, S., 1983, Tetrahedron 39:3-22, "DNA Synthesis"
CBL	Paul et al., 1988, Ann. Rev. Immunol. 6:407-38, "Lymphotoxin"
CBM	Piguet, Pierre, 1992, "TNF and Alloreactions. Involvement of TNF in the Effector Phase of Graft-Versus-Host and Host-Versus-Graft Reactions" in Tumor Necrosis Factors. The Molecules and Their Emerging Role in Medicine, B. Beutler (Ed.), Raven Press, NY, pp. 341-354
CBN	Pitti et al., 1996, J. of Biological Chemistry 271:12687-12690, "Induction of Apoptosis by Apo-2 Ligand, a New Member of the Tumor Necrosis Factor Cytokine Family" Proceedings Second International Conference on Intelligent Systems for Molecular Biology, Altman, Brutlag, Karp, Lathrop & Searls (Eds.), AAAIPress, Menlo Park, pp. 53-61
CBO	Rieux-Laucat et al., 1995, Science 268:1347-1349, "Mutations in Fas Associated with Human Lymphoproliferative Syndrome and Autoimmunity"
CBP	Roberts et al., 1992, Proc. Natl. Acad. Sci. USA 89:2429-2433, "Directed Evolution of a Protein: Selection of a Potent Neutrophil Elastase Inhibitors Displayed on M13 Fusion Phage"
CBQ	Roodman, David, 1992, "TNF and Hematopoiesis", in Tumor Necrosis Factors. The Molecules and Their Emerging Role in Medicine, B. Beutler (Ed.), Raven Press, NY, pp. 117-129
CBR	Ruby et al., 1995, Nature Medicine 1:437-441, "CD40 Ligand Has Potent Antiviral Activity"
CBS	Schall et al., 1990, Cell 61:361-370, "Molecular Cloning and Expression of a Receptor for Human Tumor Necrosis Factor"
CBT	Schneider et al., 1999, Eur. J. Immunol. 29:1785-1792, "TWEAK Can Induce Cell Death Via Endogenous TNF and TNF Receptor 1"
CBU	Scott, Jamie K. and George P. Smith, 1990, Science 249:386-390, "Searching for Peptide Ligands with an Epitope Library"
CBV	Silvestris et al., 1995, Clinical Immunology and Immunopathology 75:197-205, "Autoreactivity in HIV-1 Infection: The Role of Molecular Mimicry"
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INFORMATION DISCLOSURE CITATION

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JCAB
248-1019-1001

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Applicant(s)	CHICHEPORTICHE, Yves; BROWNING, Jeffrey	09/245,198
Filing Date	5 February 1999	Group Art Unit 1633

*EXAMINER
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(Including Author, Title, Date, Pertinent Pages, Etc.)

CBW	Smith et al., 1990, Science 248:1019-1022, "A Receptor for Tumor Necrosis Factor Defines an Unusual Family of Cellular and Viral Proteins"
CBX	Smith et al., 1993, Cell 73:1349-1360, "CD30 Antigen, A Marker for Hodgkin's Lymphoma Is a Receptor Whose Ligand Defines an Emerging Family of Cytokines with Homology to TNF"
CBY	Smith et al., 1994, Cell 76:959-962, "The TNF Receptor Superfamily of Cellular and Viral Proteins: Activation, Costimulation, and Death"
CBZ	Smith, Geoffrey L., 1994, Trends in Microbiology 2:81-88, "Virus Strategies for Evasion of the Host Response to Infection"
CCA	Stuber, Eckhard and Warren Strober, 1996, J. of Exp. Med. 183:979-989, "The T Cell-B Cell Interaction via OX40-OX40L Is Necessary for the T Cell-dependent Humoral Immune Response"
CCB	Suda et al., 1995, J. of Immunol. 154:3806-3813, "Expression of the Fas Ligand in Cells of T Cell Lineage"
CCC	Sytwu et al., 1996, Immunity 5:17-30, "The Roles of Fas/APO-1 (CD95) and TNF in Antigen-Induced Programmed Cell Death in T Cell Receptor Transgenic Mice"
CCD	Takahashi et al., 1994, Cell 76:969-976, "Generalized Lymphoproliferative Disease in Mice Caused by a Point Mutation in the Fas Ligand"
CCE	Tartaglia et al., 1991, Proc. Natl. Acad. Sci. USA 88:9292-9296, "The Two Different Receptors for Tumor Necrosis Factor Mediate Distinct Cellular Responses"
CCF	Tartaglia, Louis A. and David V. Goeddel, 1992, Immunology Today 13:151-153, "Two TNF Receptors"
CCG	Tracey, Kevin, 1992, "The Acute and Chronic Pathophysiologic Effects of TNF: Mediation of Septic Shock and Wasting (Cachexia)", in Tumor Necrosis Factors. The Molecules and Their Emerging Role in Medicine, B. Beutler (Ed.), Raven Press, NY, pp. 255-273
CCH	Trauth et al., 1989, Science 245:301-305, "Monoclonal Antibody-Mediated Tumor Regression by Induction of Apoptosis"

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Paul M. Kerr

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

✓ CCI Vassalli, Pierre, 1992, *Immunol Rev* 10:411-52, "The Pathophysiology of Tumor Necrosis Factors"

✓ CCJ Waage, Anders, 1992, "Presence and Involvement of TNF in Septic Shock", in *Tumor Necrosis Factors. The Molecules and Their Emerging Role in Medicine*, B. Beutler (Ed.), Raven Press, NY, pp. 275-283

✓ CCK Wang et al., 1995, *J. of Immunol.* 155:3722-3725, "Induction of bcl-x by CD40 Engagement Rescues sIg-Induced Apoptosis in Murine B Cells"

✓ CCL Ware et al., 1995, "The Ligands and Receptors of the Lymphotoxin System", in *Pathways for Cytolysis*, Griffiths and Tschopp (Eds.), Springer-Verlag, Berlin, Heidelberg, pp. 175-218.

✓ CCM Watanabe-Fukunaga et al., 1992, *Nature* 356:314-317, "Lymphoproliferation Disorder in Mice Explained by Defects in Fas Antigen that Mediates Apoptosis"

✓ CCN Wiley et al., 1995, *Cell* 3:673-682, "Identification and Characterization of a new Member of the TNF Family that Induces Apoptosis"

✓ CC0 Wong et al., 1992, "MnSOD Induction by TNF and Its Protective Role", in *Tumor Necrosis Factors. The Molecules and Their Emerging Role in Medicine*, B. Beutler (Ed.), Raven Press, NY, pp. 473-484

✓ CCP Yonehara et al., 1989, *J. Exp. Med.* 169:1747-1756, "A Cell-Killing Monoclonal Antibody (ANTI-Fas) To a Cell Surface Antigen Co-Downregulated with the Receptor of Tumor Necrosis Factor"

✓ CCQ Zheng et al., 1995, *Nature* 377:348-351, "Induction of Apoptosis in Mature T Cells by Tumor Necrosis Factor"

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